(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 18 March 2004 (18.03.2004)

PCT

(10) International Publication Number WO 2004/023014 A3

(51) International Patent Classification?:

E21B 19/16

(21) International Application Number:

PCT/US2003/025716

- (22) International Filing Date: 18 August 2003 (18.08.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/412,371

9 September 2002 (09.09.2002) US

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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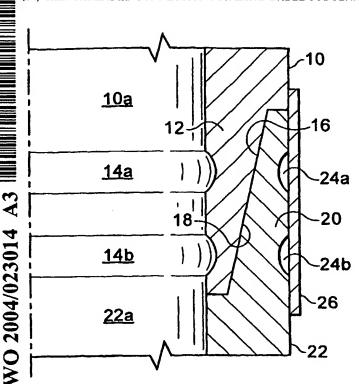
of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: THREADED CONNECTION FOR EXPANDABLE TUBULARS



(57) Abstract: A threaded connection for expandable tubulars. There is a first tubular (10) with external threads (16) and a second tubular (22) with matching internal threads. Each of these tubular has stress concentration grooves (14a, 14b, 24a, 24b). There is a sleeve (26) that goes over the connection between the threaded portions of the tubulars. After connection these tubulars can be expanded downhole in a wellbore.

WO 2004/023014 A3



(88) Date of publication of the international search report: 3 March 2005

(15) Information about Correction:
Previous Correction:
see PCT Gazette No. 41/2004 of 7 October 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

			PC 170303/23716		
A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : E21B 19/16					
US CL: 166/380, 207; 285/333 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/380, 207, 381, 382, 206; 285/333, 334; 403/297					
0.5. 100/300, 207, 301, 302, 200, 203/333, 334, 403/257					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
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C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *				Relevant to claim No.	
х	US 5,924,745 A (Campbell) 20 July 1999 (20.07:19 9 - column 4, line 27.	999), figures 3 and 4, c	olumn 3, lines	1, 3-5, 7-9, 11, 12,	
Y	SU 1,756,531 A (KRYZHANOVSKII et al) 28 Mai	mb 1000 (20 02 1000)	F: 1	15, 17-21	
•	abstract.	CII 1990 (28.03.1990),	rigure 1,	1, 3-5, 7-9, 11, 12,	
Y	WO 99/23354 (METCALFE) 14 May 1999 (14.05.	1999), figure 5, page 1	1 lines 23-28	15, 17-21 1, 3-5, 7-9, 11, 12,	
1			1 11100 25 20.	15, 17-21	
A, E	US 6,622,797 B2 (SIVLEY IV) 23 September 2003 (23.09.2003), whole document.			1-12, 15-21	
A, E	US 6,607,220 B2 (SIVLEY, IV) 19 August 2003 (19.08.2003), whole document.				
A D	NO C CCA POT DA CRAY DO CC AND CO CCA POTO CO CON POTO CO CON POTO CO CON POTO CO CON POTO CON POTO CO CON POTO CO				
A, P	US 6,564,875 B1 (BULLOCK) 20 May 2003 (20.05.2003), whole document.			1-12, 15-21	
^ 1	US 2002/0108756 A1 (HARRALL et al) 15 August 2002 (15.06.2002), whole document.			1-12, 15-21	
A	US 6,322,109 B1 (CAMPBELL et al) 27 November 2001 (27.11.2001), whole document.			1-12, 15-21	
A	US 6,085,838 A (VERCAEMER et al) 11 July 2000 (11.07.2000), whole document.			1-12, 15-21	
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Further	documents are listed in the continuation of Box C.	See patent fa	unily annex.		
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	•			ou report	
12 March 2004 (12.03.2004) 13 JAN 2005					
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Continuation of B. FIELDS SEARCHED Item 3:					
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Terms: Thread, Stress concentrator, stress, expand/expanding, tubular, casing					
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